```
Q1. WACP to print a message on the screen.
#include<stdio.h>
int main(){
    printf("Hello Ruhul");
    return 0;
}
```

```
Last login: Wed Apr 14 00:39:10 on ttys009
[3] 90542
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
1 ; exit;
Hello Ruhul
Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.

[Process completed]
```

```
Q2. WACP to add two numbers.
#include<stdio.h>
int main(){
int a, b, c;
printf("Enter the 1st number: ");
scanf("%d", &a);
printf("Enter the 2nd number: ");
scanf("%d", &b);
c = a + b;
printf("The sum of %d and %d is %d", a,b,c);
return 0;
}
```

```
Last login: Wed Apr 14 00:40:29 on ttys009
[3] 92289
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q 2; exit;
Enter the 1st number: 4
Enter the 2nd number: 7
The sum of 4 and 7 is 11
Saving session...
...saving history...truncating history files...
...completed.
```

```
Q3. WACP to read a character and print its ASCII value.

#include <stdio.h>

int main(){
    char ch;
    printf("Enter any character: ");
    scanf("%c", &ch);
    printf("The ASCII value of %c is %d", ch, ch);

return 0;
}
```

```
Last login: Wed Apr 14 00:43:30 on ttys009
[3] 93355
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
3; exit;
Enter any character: A
The ASCII value of A is 65
Saving session...
...saving history...truncating history files...
...completed.

[Process completed]
```

```
Q4. WACP to calculate simple interest.
#include <stdio.h>

int main(){
  int p, t;
  float r, SI;
  printf("Enter the principal amount: ");
  scanf("%d", &p);
  printf("Enter the rate of interest: ");
  scanf("%f", &r);
  printf("Enter the time(years): ");
  scanf("%d", &t);
  SI = (p * r * t)/100;
  printf("Simple interest is %f", SI);
    return 0;
}
```

```
Last login: Wed Apr 14 00:45:06 on ttys009
[3] 96045
ruhulsardar@Ruhuls=MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
4; exit;
Enter the principal amount: 20000
Enter the rate of interest: 2.5
Enter the time(years): 5
Simple interest is 2500.000000
Saving session...
...saving history...truncating history files...
...completed.

[Process completed]
```

```
Q5. WACP to calculate compound interest.
#include<stdio.h>
#include<math.h>

int main(){
    int p, n;
    float r, CI;
    printf("Enter the amount of principal: ");
    scanf("%d", &p);
    printf("Enter the time(Years): ");
    scanf("%d", &n);
    printf("Enter the rate of interest: ");
    scanf("%f", &r);
    CI = (p*(pow((1 + r/100), n) - 1 ));
    printf("Amount of compund interest is: %f ", CI);
    return 0;
}
```

```
Last login: Wed Apr 14 00:49:50 on ttys010
[3] 97596
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
5; exit;
Enter the amount of principal: 20000
Enter the time(Years): 5
Enter the rate of interest: 2.5
Amount of compund interest is: 2628.161621
Saving session...
...saving history...truncating history files...
...completed.
[Process completed]
```

```
Q6. WACP to swap two integer numbers without using any 3rd variable.
#include<stdio.h>

int main(){
  int a, b;
  printf("Enter the value of a: ");
  scanf("%d", &a);
  printf("Enter the value of b: ");
  scanf("%d", &b);
  a = a + b;
  b = a - b;
  a = a - b;
  printf("The swapped value of a is %d", a);
  printf("\nThe swapped value of b is %d", b);

  return 0;
}
```

```
Last login: Wed Apr 14 00:52:09 on ttys009
[3] 99081
ruhulsardar@Ruhuls=MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q 6; exit;
Enter the value of a: 3
Enter the value of b: 9
The swapped value of a is 9
The swapped value of b is 3
Saving session...
...saving history...truncating history files...
...completed.
```

```
Q7. WACP to swap two integer numbers using 3rd variable.
#include<stdio.h>
int main(){
   int a, b, c;
   printf("Enter the value of a: ");
   scanf("%d", &a);
   printf("Enter the value of b: ");
   scanf("%d", &b);
   c = a;
   a = b;
   b = c;
   printf("The swapped value of a is %d", a);
   printf("\nThe swapped value of b is %d\n", b);
   return 0;
}
```

```
Last login: Tue Apr 13 23:37:32 on ttys008
[3] 76245
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
7; exit;
Enter the value of a: 6
Enter the value of b: 9
The swapped value of a is 9
The swapped value of b is 6
Saving session...
...saving history...truncating history files...
...completed.

[Process completed]
```

```
Q8. WACP to find the area and circumference of a circle.
#include <stdio.h>

#define PI 3.14

int main(){
    float area, circumference;
    int r;
    printf("Enter the value of radius: ");
    scanf("%d", &r);
    circumference = 2 * PI * r;
    area = PI * r * r;
    printf("Circumference of the circle is : %f ", circumference);
    printf("\nArea of the circle is : %f ", area);

    return 0;
}
```

```
Last login: Wed Apr 14 00:38:34 on ttys009
[3] 89807
ruhulsardar@Ruhuls-MBP ~ % /Users/ruhulsardar/Desktop/Clguploads/C/Assignments/Q
8 ; exit;
Enter the value of radius: 3
Circumference of the circle is : 18.840000
Area of the circle is : 28.260000
Saving session...
...saving history...truncating history files...
...completed.

[Process completed]
```